

IN THE CLAIMS

Please cancel claims 1-22 without prejudice or disclaimer.

Please add claims 23-33 as indicated below.

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-22 (cancelled)

Claim 23 (new) A system, comprising:

a shared memory; and

a processing element coupled to said shared memory, wherein said processing element comprises:

a processing unit, wherein said processing unit comprises a first address translation mechanism;

a direct memory access controller coupled to said processing unit, wherein said direct memory access controller comprises a second address translation mechanism; and

at least one attached processing unit coupled to said direct memory access memory controller.

Claim 24 (new) The system as recited in claim 23, wherein said first and said second address translation mechanism translate a range of virtual addresses to a corresponding range of physical addresses.

Claim 25 (new) The system as recited in claim 23, wherein said first and said second address translation mechanism comprise a first and a second translation lookaside buffer, respectively.

Claim 26 (new) The system as recited in claim 25, wherein said first translation lookaside buffer and said second translation lookaside buffer comprise matching pages.

Claim 27 (new) The system as recited in claim 25, wherein said first translation lookaside buffer and said second translation lookaside buffer contain matching translations.

Claim 28 (new) The system as recited in claim 24, wherein said corresponding range of physical addresses are pinned.

Claim 29 (new) The system as recited in claim 23 further comprising:
a translation consistency mechanism coupled to said first and said second address translation mechanism.

Claim 30 (new) The system as recited in claim 29, wherein said translation consistency mechanism controls said first and second address translation mechanism to translate a range of virtual addresses to a corresponding range of physical addresses.

Claim 31 (new) The system as recited in claim 29, wherein said first and said second address translation mechanism comprise a first and a second translation lookaside buffer, respectively.

Claim 32 (new) The system as recited in claim 31, wherein said translation consistency mechanism effectuates matching pages in said first translation lookaside buffer and in said second translation lookaside buffer.

Claim 33 (new) The system as recited in claim 31, wherein said translation consistency mechanism effectuates matching translations in said first translation lookaside buffer and in said second translation lookaside buffer.